



# Mickleover Primary School – Science Knowledge Organiser

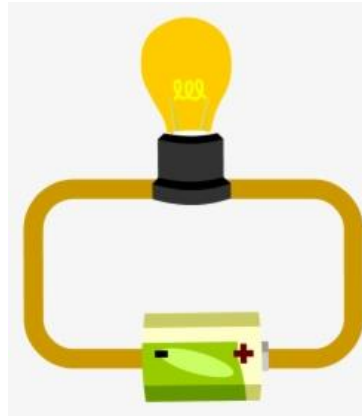
Title: Circuits and Conductors

Year Group: 4

Term: Autumn 2

## Vocabulary you will know...

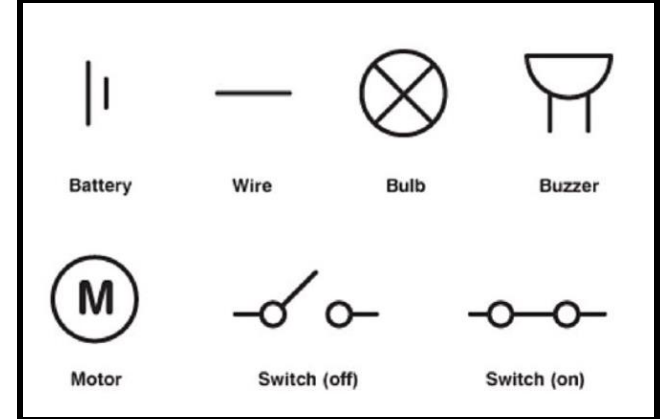
Electricity	Electricity is a flow of electrons which transfer energy.
Circuit	A system of electrical components that allows electricity to flow through.
Cell	A single electrical power supply.
Battery	Two or more cells together.
Wire	A length of material that conducts electricity.
Bulb	A small lamp that provides light when electricity passes through it.
Motor	A component that spins when electricity passes through it.
Switch	A component that controls the flow of electricity in a circuit.
Conductor	A material that allows electricity to flow through it.
Insulator	A material that does not allow electricity to flow through it.



## Key Learning

- ✓ I can identify whether an appliance is powered through a mains outlet or battery source.
- ✓ I can identify the components needed to create a simple circuit.
- ✓ I can identify whether a bulb will light up in a circuit.
- ✓ I can recognise that a switch will open and close a circuit.
- ✓ I know how to change the brightness of a bulb or the speed of a motor in a circuit.
- ✓ I can recognise common conductors and insulators of electricity.

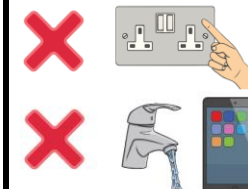
## Signs and Symbols



## Safety Information



If you see this sign, it means there is a possible electric danger close by.



Don't put your fingers in sockets.

Don't use radios or hair dryers near water.

MOTIVATED

PROUD

SUCCESSFUL